

Resource Summary Report

Generated by [kravitz2](#) on Jul 31, 2026

pCAG mito-RCaMP1h

RRID:Addgene_105013

Type: Plasmid

Proper Citation

RRID:Addgene_105013

Plasmid Information

URL: <http://www.addgene.org/105013>

Proper Citation: RRID:Addgene_105013

Insert Name: RCaMP1h

Organism: Other

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:29097544](#)

Vector Backbone Description: Vector Backbone:pCIG2; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pCAG mito-RCaMP1h

Record Creation Time: 20220422T221509+0000

Record Last Update: 20260725T073412+0000

Ratings and Alerts

No rating or validation information has been found for pCAG mito-RCaMP1h.

No alerts have been found for pCAG mito-RCaMP1h.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 7 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Akhtar A, et al. (2025) Bioengineering the metabolic network of CAR T cells with GLP-1 and Urolithin A increases persistence and long-term anti-tumor activity. Cell reports. Medicine, 6(3), 102021.

Eom Y, et al. (2024) Mitochondrial Calcium Waves by Electrical Stimulation in Cultured Hippocampal Neurons. Molecular neurobiology, 61(6), 3477.

Casas M, et al. (2023) NPC1-dependent alterations in KV2.1-CaV1.2 nanodomains drive neuronal death in models of Niemann-Pick Type C disease. Nature communications, 14(1), 4553.

Yip KP, et al. (2023) Epac induces ryanodine receptor-dependent intracellular and inter-organellar calcium mobilization in mpkCCD cells. Frontiers in physiology, 14, 1250273.

Horvath JD, et al. (2023) γ -Synuclein-dependent increases in PIP5K1 γ drive inositol signaling to promote neurotoxicity. Cell reports, 42(10), 113244.

Carpio MA, et al. (2021) BOK controls apoptosis by Ca²⁺ transfer through ER-mitochondrial contact sites. Cell reports, 34(10), 108827.

Styr B, et al. (2019) Mitochondrial Regulation of the Hippocampal Firing Rate Set Point and Seizure Susceptibility. Neuron, 102(5), 1009.